

DALHOUSIE MATHEMATICS COLLOQUIUM

Monday October 1 2018, 3:30 pm, Chase 319

Speaker: Kathryn Hare
(University of Waterloo)

The size of self-similar sets and measures

In this talk, we will investigate various ways to quantify the size of self-similar subsets of \mathbb{R} and the self-similar measures concentrated on them. Of particular interest will be measures that arise from ‘overlapping iterated function systems, such as Bernoulli convolutions or m -fold convolutions of Cantor measures. These measures have been of interest to mathematicians for more than 80 years and yet fundamental questions remain open and surprising discoveries are still being made.